

What is claimed is:

1. Motor vehicle door locking system comprising:

at least one motor vehicle lock, wherein the motor vehicle lock is at least one of locked, unlocked and opened by a motor;

a motor vehicle-side control; and

an operator-side mobile part, each of the control and the mobile part including communications electronics, wherein the communications electronics create a bidirectional wireless link between the control and the mobile part, wherein at least one system function of the motor vehicle door locking system is triggerable by the mobile part via the wireless link, and wherein the wireless link is a Bluetooth wireless link.

2. Motor vehicle door locking system as claimed in claim 1, wherein the communications electronics of the control either includes a Bluetooth interface or is coupled to a Bluetooth interface located in the vehicle, and wherein the communications electronics of the mobile part has a Bluetooth interface.

3. Motor vehicle door locking system as claimed in claim 1, wherein the mobile part is a card, a key ring or a component of a key.

4. Motor vehicle door locking system as claimed in claim 1, wherein the mobile part is a mobile phone with an integrated Bluetooth interface or a personal digital assistant (PDA) with an integrated Bluetooth interface.

5. Motor vehicle door locking system as claimed in claim 1, wherein the system function is unlocking of the motor vehicle lock.

6. Motor vehicle door locking system as claimed in claim 1, wherein the system function is motorized opening of the motor vehicle lock.

7. Motor vehicle door locking system as claimed in claim 5, wherein the motor vehicle door locking system includes a passive entry function in which, as the operator with the mobile part approaches the motor vehicle, the control, after a starting interval and an authentication check interval, triggers an action interval for unlocking the motor vehicle lock.

8. Motor vehicle door locking system as claimed in claim 7, wherein the starting interval corresponds to an automatic Bluetooth connection setup between the Bluetooth interface of the control and the Bluetooth interface of the mobile part that occurs when the mobile part approaches the motor vehicle.

9. Motor vehicle door locking system as claimed in claim 8, wherein the authentication check interval corresponds to a Bluetooth authentication interrogation which follows the Bluetooth connection setup.

10. Motor vehicle door locking system as claimed in claim 2, wherein depending on the length of the Bluetooth wireless link, the two Bluetooth interfaces control their respective transmission power via a Bluetooth service such that the transmission power maintains the Bluetooth wireless link without the use of extraneous transmission power.

11. Motor vehicle door locking system as claimed in claim 2, wherein the vehicle-side or operator-side reception level of the Bluetooth wireless link can be measured by the control, wherein from the measured reception level, the distance of the mobile part from the motor vehicle is determined by the control and wherein the control enables or blocks the triggering of the at least one system function depending on the determined distance.

12. Motor vehicle door locking system as claimed in claim 11, wherein the control enables triggering of the system function only when the mobile part is located within a predetermined distance range (A_1) around the vehicle.

13. Motor vehicle door locking system as claimed in claim 12, wherein the control enables system functions, triggered by the mobile part, where two distance ranges (A_1, A_2) are used, wherein the system functions are assigned to different distance ranges (A_1, A_2) and wherein the control enables triggering of a system function when the mobile part is located within the distance range A_1 to A_2 .

14. Motor vehicle door locking system as claimed in claim 2, wherein the at least one system function triggered by the mobile part further comprises at least one of activation of the front end lights, the blinker or the interior lighting of the motor vehicle or such as operator-specific adjustment of the seat or the mirror of the motor vehicle.

15. Motor vehicle door locking system as claimed in claim 13, wherein the at least one system function triggered by the mobile part further comprises at least one of activation of the front end lights, the blinker or the interior lighting of the motor vehicle or such as operator-specific adjustment of the seat or the mirror of the motor vehicle.

16. Motor vehicle door locking system as claimed in claim 2, wherein the vehicle has motor vehicle lock which can be unlocked by motor and wherein one of the system functions which can be triggered by the mobile part is motorized unlocking of the motor vehicle lock.

17. Motor vehicle door locking system as claimed in claim 13, wherein one of the system functions is motorized unlocking of the motor vehicle lock.

18. Motor vehicle door locking system as claimed in claim 15, wherein one of the system functions is motorized unlocking of the motor vehicle lock

19. Motor vehicle door locking system as claimed in claim 2, wherein one of the system functions is motorized opening of the motor vehicle lock.

20. Motor vehicle door locking system as claimed in claim 13, wherein one of the system functions is motorized opening of the motor vehicle lock.

21. Motor vehicle door locking system as claimed in claim 17, wherein one of the system functions is motorized opening of the motor vehicle lock.

22. Motor vehicle door locking system as claimed in claim 2, wherein one of the system functions is the activation of an authentication check interval.

23. Motor vehicle door locking system as claimed in claim 13, wherein one of the system functions which is the activation of an authentication check interval.

24. Motor vehicle door locking system as claimed in claim 17, wherein one of the system functions is the activation of an authentication check interval.

25. Motor vehicle door locking system as claimed in claim 2, wherein at least one system function which is enabled by the control can be triggered by manual actuation of the mobile part.

26. Motor vehicle door locking system as claimed in claim 21, wherein at least one system function which is enabled by the control can be triggered by manual actuation of the mobile part.

27. Motor vehicle door locking system as claimed in claim 13, wherein the movement of the mobile part into the distance range (A_1, A_2) automatically causes triggering of the pertinent system function.

28. Motor vehicle door locking system as claimed in claim 1, wherein the engine of the motor vehicle is started via an actuation arrangement in an interior (A_0) of the vehicle,

and wherein the control enables the starting of the engine when the mobile part is in the interior (A₀) of the vehicle.

29. Motor vehicle door locking system as claimed in claim 13, wherein the engine of the motor vehicle is started via an actuation arrangement in an interior (A₀) of the vehicle, and wherein the control enables the starting of the engine when the mobile part is in the interior (A₀) of the vehicle.

30. Motor vehicle door locking system as claimed in claim 17, wherein the engine of the motor vehicle is started via an actuation arrangement in an interior (A₀) of the vehicle, and wherein the control enables the starting of the engine when the mobile part is in the interior (A₀) of the vehicle.

31. Motor vehicle door locking system as claimed in claim 18, wherein the engine of the motor vehicle is started via an actuation arrangement in an interior (A₀) of the vehicle, preferably via a pushbutton or the like, and wherein the control enables the starting of the engine when the mobile part is in the interior (A₀) of the vehicle.